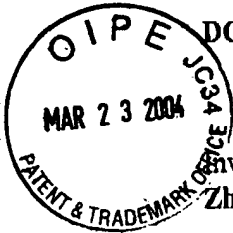


11230



DOCKET NO.: UPN0015-100

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Mark I. Greene, James Eberwine, Janet Estee Kacharmina and Hongtao Zhang

Serial No.: 09/624,946

Examiner: Joyce Tung

Filing Date: July 25, 2000

Art Unit: 1637

Title: Methods, Systems and Kits for Immuno-detection of Epitopes Expressed on Molecules

Commissioner For Patents  
P.O. Box 1450  
Alexandria, Virginia 22313

Sir:

**POWER OF ATTORNEY WITH REVOCATION AND  
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application, and appoint:

☒ Practitioners at Customer Number: 34136

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the Correspondence Address for the above-identified application to:

☒ Practitioners at Customer Number: 34136

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

Respectfully submitted,

The Trustees of the University of Pennsylvania

Date: 3/23/04By: 

Name: \_\_\_\_\_

Title: TIMOTHY J. RAYNOR  
DIRECTOR, INTELLECTUAL PROPERTY  
CENTER FOR TECHNOLOGY TRANSFER  
UNIVERSITY OF PENNSYLVANIA



DOCKET NO.: UPN0015-100

PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Mark L. Greene, James Eberwine, Janet Estee Kacharmina and Hongtao Zhang

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Art Unit: 1637

Title: Methods, Systems and Kits for Immuno-detection of Epitopes Expressed on Molecules

Commissioner For Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

## STATEMENT UNDER 37 CFR 3.73(b)

Applicant, The Trustees of the University of Pennsylvania, a corporation, states that it is:

☒ the assignee of the entire right, title, and interest of the above-identified application.

The extent (by, percentage) of its ownership interest is 100% in the patent application/patent identified above by virtue of either:

☒ A copy of the assignment from the inventor(s) of the patent application identified above is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,

The Trustees of the University of Pennsylvania

Date: 3/23/04By: [Signature]

Name: \_\_\_\_\_

Title: \_\_\_\_\_

TIMOTHY J. RAYNOR  
DIRECTOR, INTELLECTUAL PROPERTY  
CENTER FOR TECHNOLOGY TRANSFER  
UNIVERSITY OF PENNSYLVANIA

DOCKET NO. UPN0015-100

PATENT  
Joint Inventors

412230  
F. J. J. J.

(Pending Application:  
Serial No. 09/624,946)

### ASSIGNMENT

WHEREAS, we Mark I. Greene, James Eberwine, Janet Estee Kacharina and Hongtao Zhang, hereinafter referred to as the assignors, residing respectively at 300 Righters Mill Road, Penn Valley, Pennsylvania 19071; 3918 Henry Avenue, Philadelphia, Pennsylvania 19129; 404 Russell Park #8, Davis, California 95616; and 1651 Valley Green Road, Paoli, Pennsylvania 19301; are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Serial No. 09/624,946, entitled METHODS, SYSTEMS AND KITS FOR IMMUNO-DETECTION OF EPITOPES EXPRESSED ON MOLECULES; and

WHEREAS, The Trustees of the University of Pennsylvania hereinafter referred to as the assignee, of 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania, 19104, a corporation of Pennsylvania, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing,

reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Feb 3 / 2004 Mark I. Greene (L.S.)  
Date Mark I. Greene

STATE OF Pennsylvania  
COUNTY OF Philadelphia SS

On this 3 day of Feb, year of 2004, before me, the undersigned officer, personally came the above named Mark I. Greene to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]  
Notary Public

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
TERESA M. DUNN, Notary Public  
City of Philadelphia, Phila: County  
My Commission Expires August 12, 2007

DOCKET NO. UPN0015-100

PATENT  
Joint Inventors

\_\_\_\_\_  
Date \_\_\_\_\_ James Eberwine (L.S.)

STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ : SS

On this \_\_\_\_\_ day of \_\_\_\_\_, year of \_\_\_\_\_, before me, the undersigned officer, personally came the above named \_\_\_\_\_, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

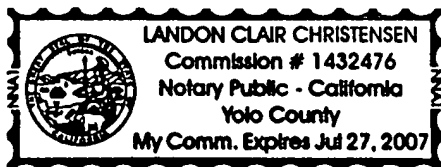
\_\_\_\_\_  
Notary Public

11/20/04  
Date \_\_\_\_\_

\_\_\_\_\_  
Janet Estee Kacharina (L.S.)

STATE OF California :  
COUNTY OF Yolo : SS

On this 20<sup>th</sup> day of January, year of 2004, before me, the undersigned officer, personally came the above named Janet Estee Kacharina, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



\_\_\_\_\_  
Notary Public

**DOCKET NO. UPN0015-100**

**PATENT  
Joint Inventors**

\_\_\_\_\_  
Date

\_\_\_\_\_  
Hongtao Zhang

(L.S.)

STATE OF :  
COUNTY OF : SS

On this \_\_\_\_\_ day of \_\_\_\_\_, year of \_\_\_\_\_, before me, the undersigned officer, personally came the above named \_\_\_\_\_, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public

A S S I G N M E N T

WHEREAS, we Mark I. Greene, James Eberwine, Janet Estee Kacharmina and Hong Tao Zhang, hereinafter referred to as the assignors, residing respectively at 300 Righters Mill Road, Penn Valley, Pennsylvania 19071, 3918 Henry Avenue, Philadelphia, Pennsylvania 19129, 751 Durham Place, Bensalem, Pennsylvania 19020 and 1651 Valley Green Road, Paoli, Pennsylvania 19301 are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Serial No. 09/624,946, filed July 25, 2000, entitled Methods, Systems and Kits for Immuno-Detection of Epitopes on Molecules; and

WHEREAS, The Trustees of the University of Pennsylvania, hereinafter referred to as the assignee, of Philadelphia, Pennsylvania, a non-profit corporation of Pennsylvania, U.S.A., is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.


AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further

covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.


AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

\_\_\_\_\_(L.S.)  
MARK I. GREENE

  
\_\_\_\_\_(L.S.)  
JAMES EBERWINE

\_\_\_\_\_(L.S.)  
JANET ESTEE KACHARMINA

  
\_\_\_\_\_(L.S.)  
~~HONG TAO~~ ZHANG  
Hongtao H.T.



[WHERE ALL INVENTORS SIGN BEFORE THE SAME NOTARY:]

STATE OF \_\_\_\_\_ SS  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me personally appeared (NAMES OF INVENTORS) Mark I. Greene, James Eberwine, Janet Estee Kacharina and Hong Tao Zhang to me personally known, and known to be the persons who executed the foregoing assignment, and who acknowledged to me that the execution of the same was of their own free will and for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public  
(PLEASE SHOW THE DATE OF EXPIRATION OF YOUR COMMISSION)

[WHERE INVENTORS SIGN BEFORE SEPARATE NOTARIES:]

STATE OF \_\_\_\_\_ SS  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me personally appeared (NAME OF INVENTOR) Mark I. Greene to me personally known, and known to be the person who executed the foregoing assignment, and who acknowledged to me that the execution of the same was of his own free will and for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public  
(PLEASE SHOW THE DATE OF EXPIRATION OF YOUR COMMISSION)

STATE OF Pennsylvania  
COUNTY OF Philadelphia<sup>SS</sup>

On this 30 day of June, 2003, before me personally appeared (NAME OF INVENTOR) James Eberwine to me personally known, and known to be the person who executed the foregoing assignment, and who acknowledged to me that the execution of the same was of his own free will and for the use and purposes therein set forth.

Mary Ann Dinkins

Notary Public

(PLEASE SHOW THE DATE OF EXPIRATION OF YOUR COMMISSION)

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_<sup>SS</sup>

NOTARIAL SEAL  
MARY ANN DINKINS, Notary Public  
City of Philadelphia, Phila. County  
My Commission Expires November 14, 2003

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me personally appeared (NAME OF INVENTOR) Janet Estee Kacharmina to me personally known, and known to be the person who executed the foregoing assignment, and who acknowledged to me that the execution of the same was of her own free will and for the use and purposes therein set forth.

Notary Public

(PLEASE SHOW THE DATE OF EXPIRATION OF YOUR COMMISSION)

STATE OF PENNSYLVANIA  
COUNTY OF Philadelphia<sup>SS</sup>

On this 15 day of April, 2003, before me personally appeared (NAME OF INVENTOR) Hong Tao Zhang to me personally known, and known to be the person who executed the foregoing assignment, and who acknowledged to me that the execution of the same was of his/her own free will and for the use and purposes therein set forth. H.T.

Hongtao Zhang

Eleanor Kindstrom

Notary Public

(PLEASE SHOW THE DATE OF EXPIRATION OF YOUR COMMISSION)

Notarial Seal  
Eleanor Kindstrom, Notary Public  
City of Philadelphia, Philadelphia County  
My Commission Expires Mar. 21, 2007  
Member, Pennsylvania Association of Notaries